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DATE: Thursday, April 08, 2004

Set Name	Query	Hit Count
DB=PGPB, U	USPT,USOC,EPAB,JPAB,DWPI; PLUR=Y	YES; OP=ADJ
L8	dsm with 11988	6
L7	dsm with 11980	1
DB=PGPB;	PLUR=YES; OP=ADJ	
L6	alkaline sphingomyelinase	2
DB=EPAB,J	PAB; PLUR=YES; OP=ADJ	
L5	alkaline sphingomyelinase	1
DB=USOC;	PLUR=YES; OP=ADJ	
L4	alkaline sphingomyelinase	0
DB=DWPI;	PLUR=YES; OP=ADJ	
L3	alkaline sphingomyelinase	3
DB=USPT; I	PLUR=YES; OP=ADJ	
L2	alkaline sphingomyelinase	0
L1	6562336.pn.	1
	DB=PGPB, U L8 L7 DB=PGPB; L6 DB=EPAB, J L5 DB=USOC; L4 DB=DWPI; L3 DB=USPT; L2	DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI; PLUR=Y L8 dsm with 11988 L7 dsm with 11980 DB=PGPB; PLUR=YES; OP=ADJ L6 alkaline sphingomyelinase DB=EPAB, JPAB; PLUR=YES; OP=ADJ L5 alkaline sphingomyelinase DB=USOC; PLUR=YES; OP=ADJ L4 alkaline sphingomyelinase DB=DWPI; PLUR=YES; OP=ADJ L3 alkaline sphingomyelinase DB=USPT; PLUR=YES; OP=ADJ L2 alkaline sphingomyelinase

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NiceProt View of TrEMBL:

Q8IUS8

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[Entry info] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information			
Entry name	Q8IUS8		
Primary accession number	Q8IUS8		
Secondary accession numbers	None		
Entered in TrEMBL in	Release 23, March 2003		
Sequence was last modified in	Release 24, June 2003		
Annotations were last modified in	Release 25, October 2003		
Name and origin of the protein			
Protein name	Hypothetical protein		
Synonym	Intestinal alkaline sphingomyelinase		
Gene name	None		
From	Homo sapiens (Human) [TaxID: 9606]		
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
References			

[1] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Colon;

MEDLINE=22388257: PubMed=12477932; [NCBI, ExPASy, EBI, Israel, Japan] Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

[2] SEQUENCE FROM NUCLEIC ACID.

TISSUE=Colon;

Strausberg R.;

Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.

[3] SEOUENCE FROM NUCLEIC ACID.

Duan R.-D., Bergman T., Xu N., Wu J., Cheng Y., Duan J., Nelander S., Palmberg C., Nilsson A.; "Identification of human intestinal alkaline sphingomyelinase as a novel ecto-enzyme related to the nucleotide phosphodiesterase family.";

J. Biol. Chem. 0:0-0(2003).

Comments

None

Cross-references

EMBL	BC041453; AAH41453.2; [EMBL / GenBank / DDBJ] [CoDingSequence] AY230663; AAP69661.1; [EMBL / GenBank / DDBJ] [CoDingSequence]		
GO	GO:0016787; Molecular function: hydrolase activity (inferred from electronic annotation). GO:0009117; Biological process: nucleotide metabolism (inferred from electronic annotation).		
Ensembl	Q8IUS8; Homo sapiens. [Entry / Contig view]		
InterPro	IPR002591; Phosphodiest. Graphical view of domain structure.		
Pfam	PF01663; Phosphodiest; 1. Pfam graphical view of domain structure.		
ProDom	[Domain structure / List of seq. sharing at least 1 domain]		
HOVERGEN	[Family / Alignment / Tree]		
ProtoMap	Q8IUS8.		
PRESAGE	Q8IUS8.		
ModBase	Q8IUS8.		
SMR	<u>Q8IUS8</u> ; A40560D61140F692.		
SWISS-2DPAG	E Get region on 2D PAGE.		
UniRef	View cluster of proteins with at least 50% / 90% identity.		

Keywords

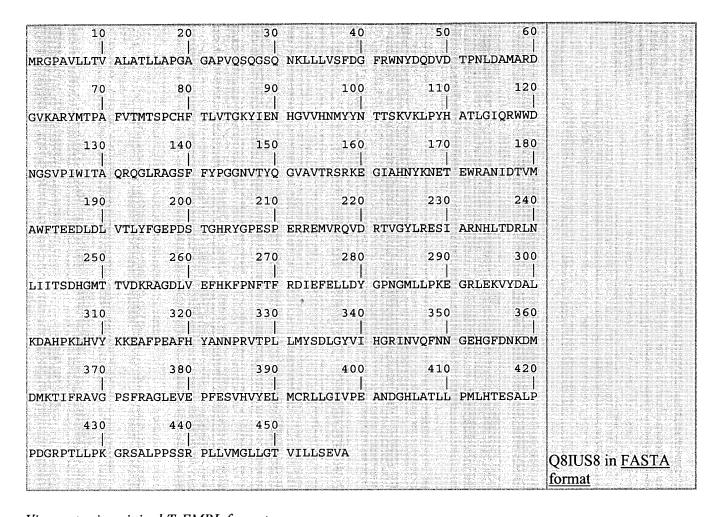
Hypothetical protein.

Features

None

Sequence information

Length: 458 AA Molecular weight: 51477 | CRC64: A40560D61140F692 [This is a checksum on the sequence]



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BLAST

BLAST submission on ExPASy/SIB or at NCBI (USA)



Sequence analysis tools: <u>ProtParam</u>, <u>ProtScale</u>, <u>Compute pI/Mw</u>, <u>PeptideMass</u>, <u>PeptideCutter</u>, <u>Dotlet</u> (Java)



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Search Swiss-Pro	t/TrEMBL	▼ for	Go	Clear

NiceZyme View of ENZYME: EC 3.1.4.12

Sphingomyelin phosphodiest	erase.
Alternative Name(s)	
Acid sphingomyelinase. Neutral sphingomyelinase.	
Reaction catalysed	
Sphingomyelin + H(2)0	
<=>	
N-acylsphingosine + choline phosphate	
September 11 to provide the control of the control	
Comments	NOT THE REPORT OF THE PROPERTY
Has very little activity or	n phosphatidylcholine.
Human Genetic Disease(s)	
Niemann-Pick disease, type A	MIM:257200
Niemann-Pick disease, type B	MIM:607616
Cross-references	
Biochemical Pathways; map number(s)	C8
BRENDA	3.1.4.12
EMP/PUMA	3.1.4.12
WIT	3.1.4.12
Kyoto University LIGAND chemical database	3.1:4.12
IUBMB Enzyme Nomenclature	3.1.4.12
IntEnz	3.1.4.12
MEDLINE	Find literature relating to 3.1.4.12
	Q10916, ASM1_CAEEL; Q23498, ASM2_CAEEL; Q9UAY4, ASM3_CAEEL; P17405, ASM HUMAN; Q04519, ASM MOUSE; Q45870, NSMA_CAEEL;
	Q9VZS6, NSMA_DROME; 060906, NSMA_HUMAN; 070572, NSMA_MOUSE;
Swiss-Prot	Q9ET64, NSMA_RAT ; 074369, NSMA_SCHPO; P09599, PHL1_BACCE; P59115, PHL1_LEPIN; P11889, PHL2_BACCE; P59116, PHL2_LEPIN;